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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,493	07/22/2005	Myung-Sun Moon	29137.005.00	4918
30827 75	590 12/02/2005	EXAMINER		
MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW			ERDEM, FAZLI	
WASHINGTO			ART UNIT	PAPER NUMBER
			2826	
			DATE MAILED: 12/02/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/516,493	MOON ET AL.
Office Action Summary	Examiner	Art Unit
	Fazli Erdem	2826
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
 1) ☐ Responsive to communication(s) filed on <u>01 December</u> 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under Example 2. 	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 10-18 is/are allowed. 6) ☐ Claim(s) 1,2 and 5 is/are rejected. 7) ☐ Claim(s) 3,4 and 6-9 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the examine Replacement drawing sheet(s) including the correction of the original transfer and the correction is objected to by the Examine 11).	epted or b) objected to by the liderawing(s) be held in abeyance. See lon is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/01/2004	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

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DETAILED ACTION

Allowable Subject Matter

1. Claims 10-18 allowed.

2. Claims 3, 4 and 6-9 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2 and 5 rejected under 35 U.S.C. 103(a) as being unpatentable over Shiota (2002/0142586) in view of Nakashima et al. (6,639,015).

Regarding Claims 1, 2 and 5, Shiota discloses a method of forming dual damascene structure where in paragraphs 22, 23 and in claim 9 it is discloses a coating composition for production of insulating film comprising an organic polysiloxane, a organic solvent and water. Shiota fails to disclose the required ratio for the polysiloxane and the organic solvent. However, Nakashima et al. disclose a costing liquid for forming a silica containing film with a low dielectric constant where in claims 1, 4, 11, 12 and 16, the required ratio for polysiloxane and the organic solvent is disclosed.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required ratio for polysiloxane and organic solvent

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in Shiota as taught by Nakashima et al. in order to have a semiconductor device with

increased reliability.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The

examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FE

November 24, 2005

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